ORDER NO. KMS0308802C1

F19

Service Manual

Digital Proprietary Telephone

KX-T7633 / KX-T7633-B White version Black version (for U.S.A.)



Panasonic

IMPORTANT INFORMATION ABOUT LEAD FREE, (PbF),

SOLDERING

If lead free solder was used in the manufacture of this product the printed circuit boards will be marked PbF.

Standard leaded, (Pb), solder can be used as usual on boards without the PbF mark. When this mark does appear please read and follow the special instructions described in this manual on the use of PbF and how it might be permissible to use Pb solder during service and repair work.

1. ABOUT LEAD FREE SOLDER (PbF: Pb free)

Note:

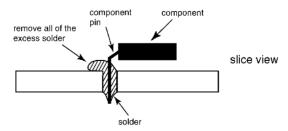
In the information below, Pb, the symbol for lead in the periodic table of elements, will refer to standard solder or solder that contains lead.

We will use PbF solder when discussing the lead free solder used in our manufacturing process which is made from Tin, (Sn), Silver, (Ag), and Copper, (Cu).

This model, and others like it, manufactured using lead free solder will have PbF stamped on the PCB. For service and repair work we suggest using the same type of solder although, with some precautions, standard Pb solder can also be used.

Caution

- PbF solder has a melting point that is 50° ~ 70° F, (30° ~ 40°C) higher than Pb solder. Please use a soldering iron with temperature control and adjust it to 700° ± 20° F, (370° ± 10°C). In case of using high temperature soldering iron, please be careful not to heat too long.
- PbF solder will tend to splash if it is heated much higher than its melting point, approximately 1100°F, (600°C).
- If you must use Pb solder on a PCB manufactured using PbF solder, remove as much of the original PbF solder as possible and be sure that any remaining is melted prior to applying the Pb solder.
- When applying PbF solder to double layered boards, please check the component side for excess which may flow onto the opposite side (See figure, below).

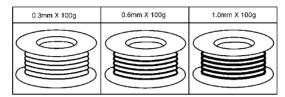


1.1. SUGGESTED PbF SOLDER

There are several types of PbF solder available commercially. While this product is manufactured using Tin, Silver, and Copper, (Sn+Ag+Cu), you can also use Tin and Copper, (Sn+Cu), or Tin, Zinc, and Bismuth, (Sn+Zn+Bi).

Please check the manufacturer's specific instructions for the melting points of their products and any precautions for using their product with other materials.

The following lead free (PbF) solder wire gauges are recommended for service of this product: 0.3mm, 0.6mm and 1.0mm.



1.2. HOW TO RECOGNIZE THAT Pb FREE SOLDER IS USED

PbF is stamped to show that Pb free solder is used. (See the figure below.)

2. FOR SERVICE TECHNICIANS

ICs and LSIs are vulnerable to static electricity.

When repairing, the following precautions will help prevent recurring malfunctions.

- 1. Cover the plastic parts boxes with aluminum foil.
- 2. Ground the soldering irons.
- 3. Use a conductive mat on the worktable.
- 4. Do not touch IC or LSI pins with bare fingers.

3. SPECIFICATIONS

Station Loop Limit: 90 ohms
Calling Method: 2 pair wire

Jacks: Handset Jack, TEL Jack, Headset Jack

Dimensions: Low Angle: 265 (D)mm [Operate] × 208 (W)mm × 128 (H)mm

 $(10.7/16" \times 8.3/16" \times 5.1/32")$

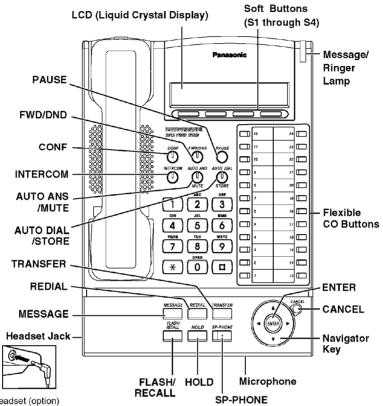
High Angle: 212 (D)mm [Operate] × 208 (W)mm × 202 (H)mm

(8 11/32" × 8 3/16" × 7 15/16") 213 (D)mm [Base] (8 3/8")

Weight: 1.13kg (39.86 oz.)

Design and specifications are subject to change without notice.

4. LOCATION OF CONTROLS

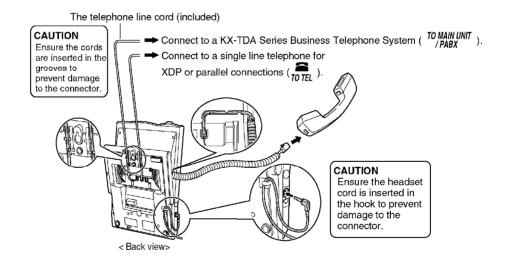


* Headset (option)
Recommended: KX-TCA86, KX-TCA91,
KX-TCA92

Do not use a KX-T7090 headset.

PAUSE	PAUSE: Used to insert a pause when storing a telephone number. This button also functions as the PROGRAM button when there is no PROGRAM button on your telephone.	FLASH/ RECALL HOLD	FLASH/RECALL: Used to disconnect the current call and make another call without hanging up. HOLD: Used to place a call on hold.
FWD/DND	FWD/DND (Call Forwarding / Do Not Disturb): Used to perform Call Forwarding or Do Not Disturb.	SP-PHONE	SP-PHONE (Speakerphone): Used for the hands-free operation.
CONF	CONF (Conference): Used to establish a multiple-party conversation.		Navigator Key: Used to adjust the volume and the display contrast or select desired items.
INTERCOM	INTERCOM: Used to make or receive intercom calls.	CANCEL	CANCEL: Used to cancel the selected item.
AUTO ANS MUTE	AUTO ANS (Auto Answer) / MUTE: Used to receive an incoming call in hands-free mode or mute the microphone/handset during a conversation.		ENTER: Used to confirm the selected item.
AUTO DIAL STORE	AUTO DIAL / STORE: Used for System/Personal Speed Dialling or storing program changes. TRANSFER:	(co)	CO: Used to make or receive an outside call. Pressing this button seizes an idle outside line automatically. (Button assignment is required.) Also used as feature buttons. (Button assignment is required.)
REDIAL	Used to transfer a call to another party. REDIAL: Used to redial the last dialed number. MESSAGE:	Ħ	Message/Ringer Lamp: When you receive an intercom call, the lamp flashes green, and on an outside call, the lamp flashes red. When someone has left you a message, the lamp stays on red.
	Used to leave a message waiting indication or call back the party who left the message waiting indication.		Soft Buttons: Used to select the item displayed on the bottom line on the display.

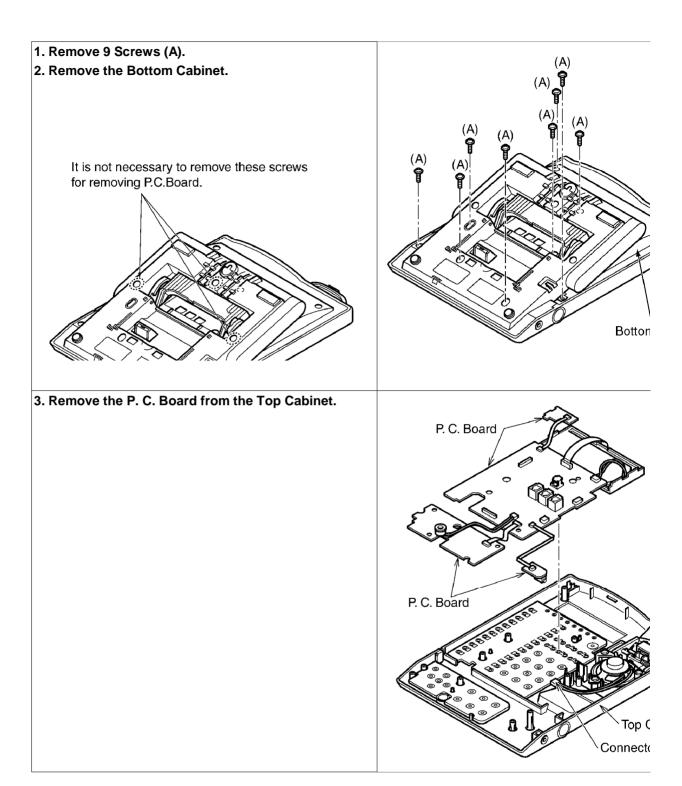
5. CONNECTION



Caution:

Consult your dealer for more details about XDP.

6. DISASSEMBLY INSTRUCTIONS



7. HOW TO REPLACE A FLAT PACKAGE IC

7.1. PREPARATION

- PbF (: Pb free) Solder
- Soldering Iron

Tip Temperature of $700^{\circ}F \pm 20^{\circ}F (370^{\circ}C \pm 10^{\circ}C)$

Note: We recommend a 30 to 40 Watt soldering iron. An expert may be able to use a 60 to 80 Watt iron where someone with less experience could overheat and damage the PCB foil.

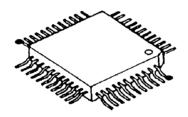
- Flux

Recommended Flux: Specific Gravity → 0.82. Type → RMA (lower residue, non-cleaning type)

Note: See ABOUT LEAD FREE SOLDER (PbF: Pb free) ().

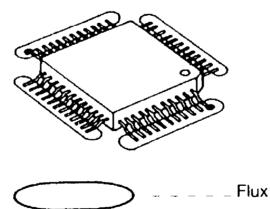
7.2. PROCEDURE

1. Tack the flat pack IC to the PCB by temporarily soldering two diagonally opposite pins in the correct positions on the PCB.

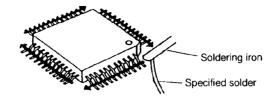


● - - - - - Temporary soldering point.
 Be certain each pin is located over the correct pad on the PCB.

2. Apply flux to all of the pins on the IC.

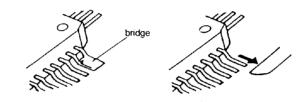


3. Being careful to not unsolder the tack points, slide the soldering iron along the tips of the pins while feeding enough solder to the tip so that it flows under the pins as they are heated.



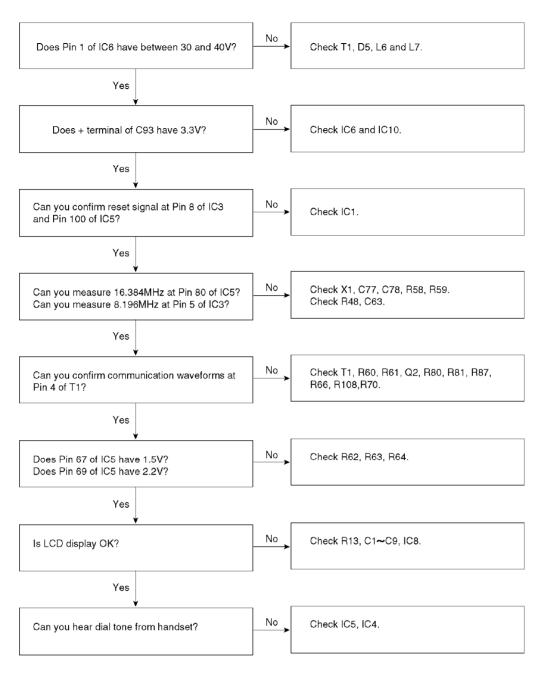
7.3. REMOVING SOLDER FROM BETWEEN PINS

- 1. Add a small amount of solder to the bridged pins.
- 2. With a hot iron, use a sweeping motion along the flat part of the pin to draw the solder from between the adjacent pads.



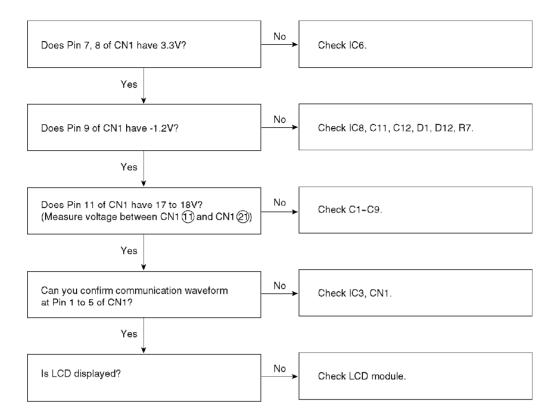
8. TROUBLESHOOTING GUIDE

8.1. NO OPERATION



Refer to (1)~(5) of WAVEFORM () for waveform.

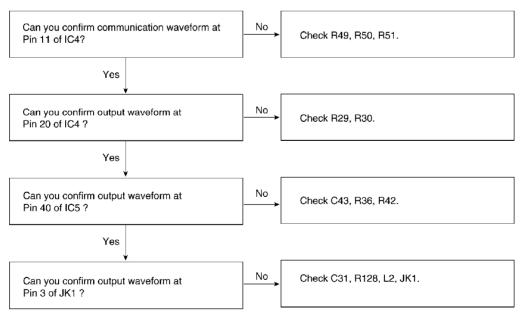
8.2. LCD DOES NOT OPERATE



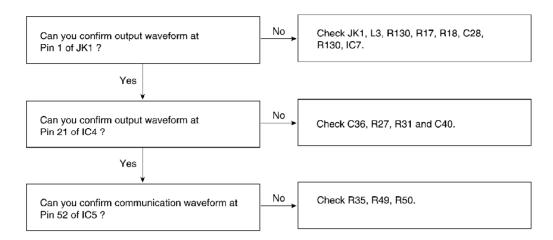
Refer to (6) of WAVEFORM () for waveform.

8.3. HANDSET DOES NOT WORK

Receive



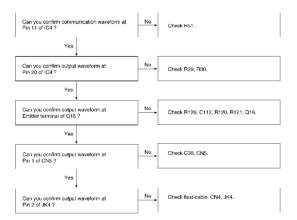
Send



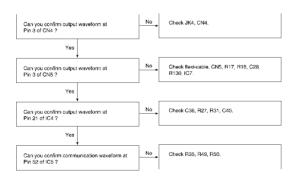
Refer to (7)~(8) of WAVEFORM () for waveform.

8.4. HEADSET DOES NOT WORK

Receive



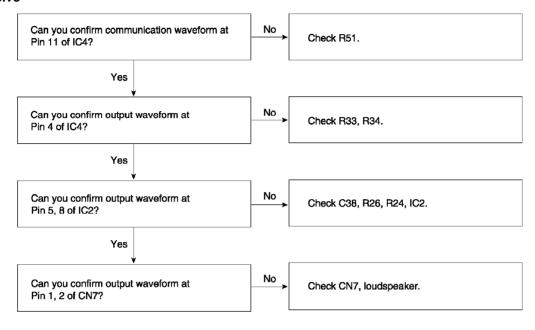
Send



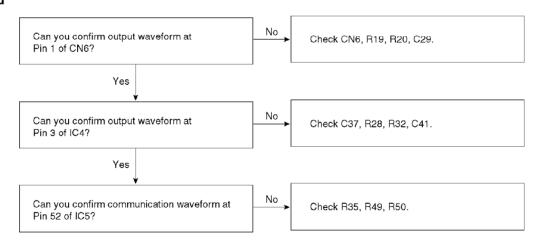
Note:

8.5. SPEAKER-PHONE TROUBLE

Receive



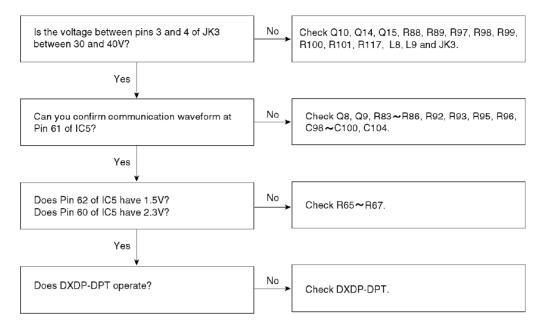
Send



Note:

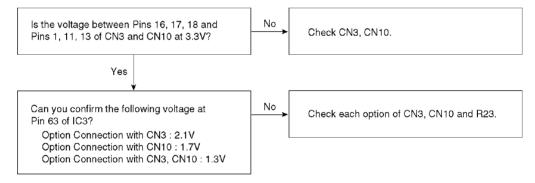
Refer to (7)~(8) of **WAVEFORM** () for waveform.

8.6. DXDP-DPT DOES NOT WORK



Refer to (9) of WAVEFORM () for waveform.

8.7. OPTION DOES NOT WORK



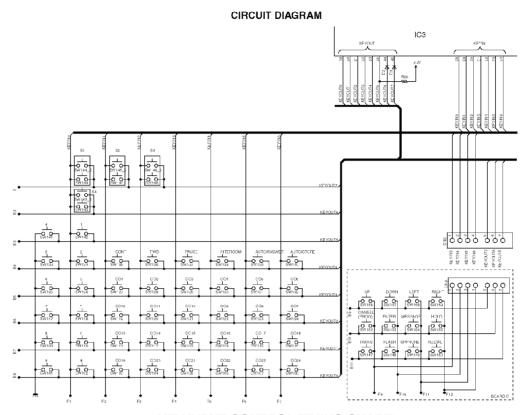
9. BLOCK DIAGRAM

10. CIRCUIT OPERATIONS

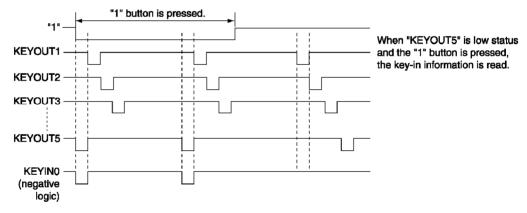
10.1. KEY INPUT CONTROL CIRCUIT

The key data is under the matrix control by 19 to 23, 25, 44, 45(KEYOUT) and 28 to 35(KEYIN) of IC3.

The key information outputted from KEYOUT is inputted into KEYIN, when the key is pressed.



KEY INPUT CONTROL TIMING CHART



10.2. LCD CIRCUIT

LCD data are outputted from pin 57, 58, 59,10 and 12 of IC3 to LCD module. IC8 is an inverter for a charge pump circuit which outputs the voltage necessary for LCD driving.

- 4.5V from -1.2V generated at IC8 as a reference to +3.3V of the power supply voltage is pressurized four times in the LCD module and used as LCD driving voltage(approx. 18V).

LCD contrast is set by electronic volume in the LCD module. The type of the LCD module is distinguished by pin 62 of IC3.

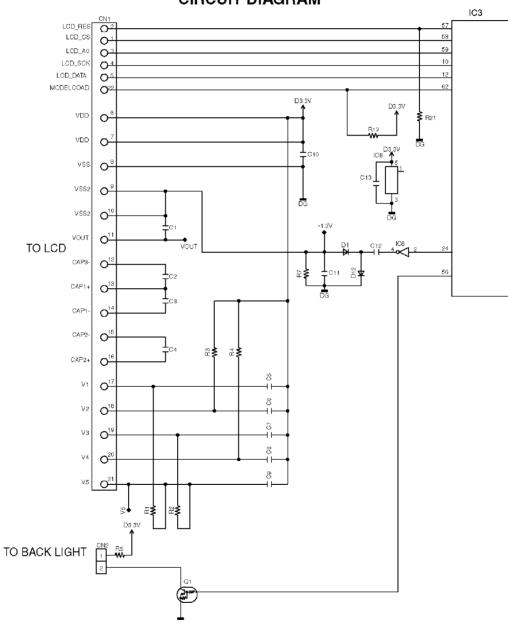
14

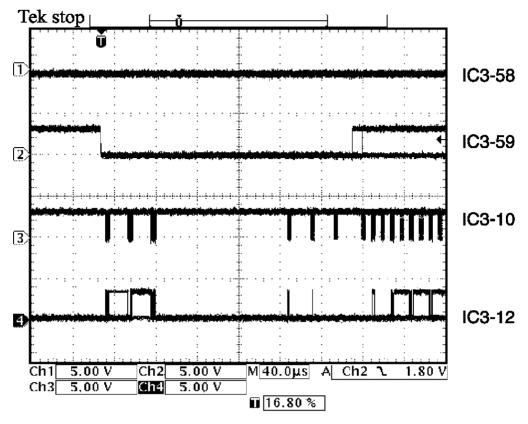
	Pin 62 of IC3					
L	KX-T7636	24 digits * 6 lines				
Н	KX-T7630/KX-	24 digits * 3 lines				
	T7633					

The lighting of the backlight is controlled by Q1.

- IC3-pin 56 H → Q1-ON → Backlight ON
- IC3-pin 56 L → Q1-OFF → Backlight OFF

CIRCUIT DIAGRAM





10.3. LED CIRCUIT

The lighting of the LED is controlled by pin 19 to 28(Row) and pin 11 to 16(Colum) of IC5. The LED lights up in a dynamic lighting system.

The duty ratio is 1/8(ON time 1.5ms).

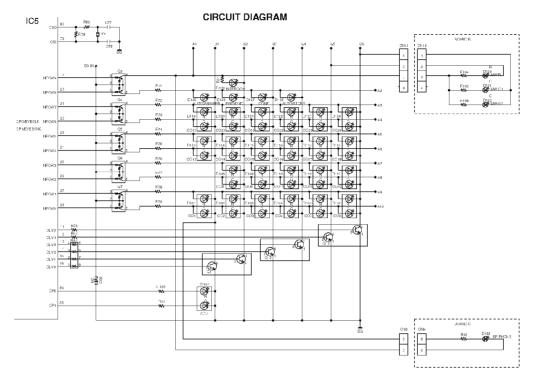
Only D107 of LED for CO7 lights up in a static lighting system.

- IC5-pin 55 H: CO7 Green ON

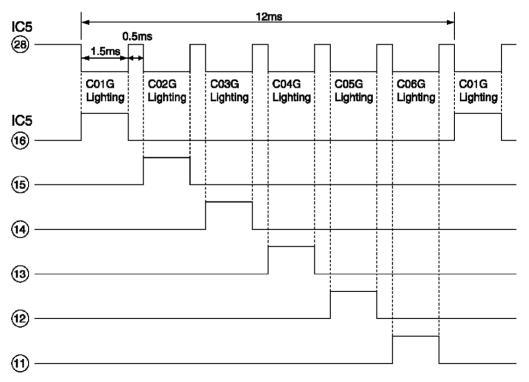
- IC5-pin 55 L: CO7 Green OFF

- IC5-pin 56 H : CO7 Red ON

- IC5-pin 56 L : CO7 Red OFF



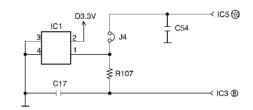
LED DYNAMIC LIGHTING

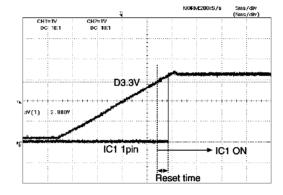


10.4. RESET CIRCUIT

Reset Signal is outputted from IC1 and inputted into IC3 and IC5 at the connection of TEL cord.

Circuit Diagram



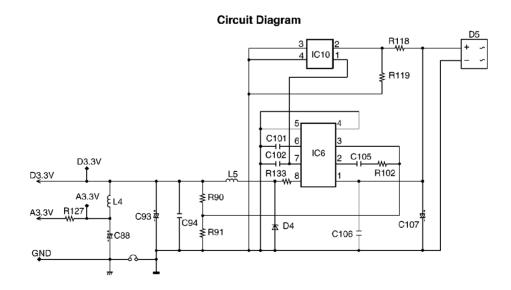


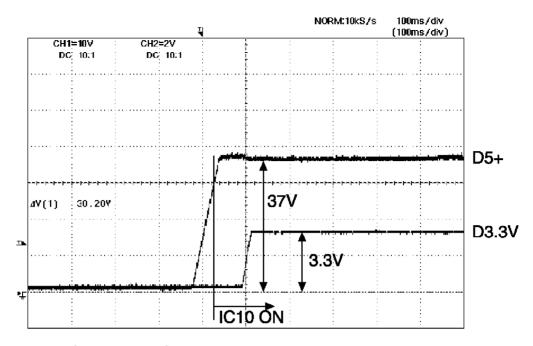
10.5. POWER SUPPLY CIRCUIT

This circuit converts the voltage supplied from PBX into the power supply voltage of +3.3V by IC6(Switching Regulator IC).

IC10 controls the power supply circuit as below to turn IC6 on in low consumption current at starting up.

- Input Voltage approx. 30V or less → IC10-pin 1 L → IC6 OFF
- Input Voltage approx. 30V or more → IC10-pin 1 HiZ → IC6ON





10.6. DATA COMMUNICATION

Function

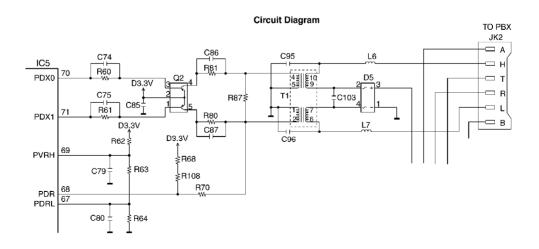
The data communication circuit serves the following functions:

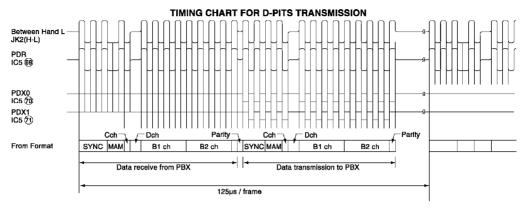
Information exchanger between PBX and proprietary telephone, key input information as well as data for the LED control, LCD control, voice data, etc. This information is continuously exchanged at all times.

Circuit Operation

The data received from PBX is inputted to the comparator(pin 68) built in IC5 through Pulse Trans T1. The threshold voltage of the comparator is determined by R62 to 64 and inputted to pin 67 and 29.

The data to PBX is outputted from pin 70 and 71 of IC5, drives T1 by Transistor Q2 and transmitted.





10.7. DXDP COMMUNICATION

Function

This circuit performs the same communication as DXDP-compatible DPT and PBX communication connected with DXDP port.

Circuit Operation

The data to Slave DPT is outputted from pin 63 and 64 of IC5 and sent by Transistor Q8 and Q9.

The data from Slave DPT is inputted to the comparator(pin 61) built in IC5.

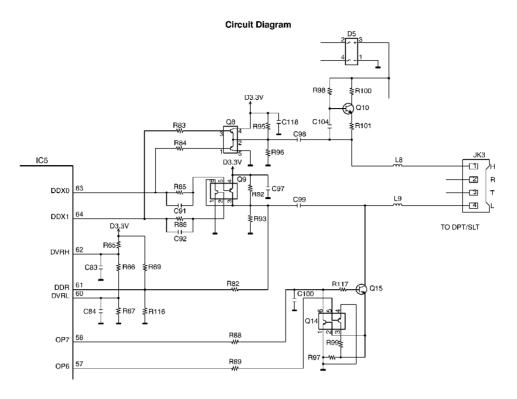
The threshold voltage of the comparator is determined by R65 to 67 and inputted to pin 60 and 62. Also, the supplying power to Slave DPT is controlled by a constant current circuit of Q15 as below.

- IC5-pin 58 as H: Constant current circuit ON

- IC5-pin 58 as L : Constant current circuit OFF

- IC5-pin 57 as H: 40mA Feeding (Slave DPT usually)

- IC5-pin 57 as L: 10mA Feeding (Slave DPT at starting up only)



10.8. OPTION DETECTION

When the option is connected with CN3 and CN10, IC3 detects the option connection by the following voltages.

- IC3-pin 63 : 3.3V → No option connection with CN3 and CN10

- IC3-pin 63 : 2.1V → Option connection with CN3 only

- IC3-pin 63 : 1.7V → Option connection with CN10 only

- IC3-pin 63: 1.3V → Option connection with CN3 and CN10

10.9. ANALOG CIRCUIT

This circuit performs the setting of the call path/vol. adjustment in each call mode by DSP built in IC5.

The audio gain of each call is determined by download data from PBX.

- IC5 sends each audio data to IC4 by PCM interface.
- IC5 receives each audio data from IC4 by PCM interface.

1. Handset Call

Transmitting signal is inputted from handset microphone and amplified by IC4 built-in Amp → A/D conversion → inputted to IC5 in PCM data → Gain adjustment by DSP of IC5 → then sent to PBX.

Transmitting signal inputted from handset microphone is

controlled by transmission switching SW IC7 as below.

IC3-pin 52 L : Handset Call (IC3-pin 52 H : Headset Call)

Receiving signal inputted from PBX is → Gain adjustment by DSP of IC5 → D/A conversion after the input to IC4 in PCM data → IC4 built-in Amp output → outputted from IC5 built-in Amp to handset.

2. Headset Call

Transmitting signal is inputted from headset microphone and amplified by IC4 built-in Amp → A/D conversion → inputted to IC5 in PCM data → Gain adjustment by DSP of IC5 → then sent to PBX. Transmitting signal inputted from headset microphone is controlled by transmission switching SW IC7 as below.

IC3-pin 52 H : Headset Call (IC3-pin 52 L : Handset Call)

Receiving signal inputted from PBX is \rightarrow Gain adjustment by DSP of IC5 \rightarrow D/A conversion after the input to IC4 in PCM data \rightarrow IC4 built-in Amp output \rightarrow outputted from Q16(transistor for buffer) to headset.

3. Speakerphone Call

Speakerphone call realizes all double-call by DSP(echo canceller) built in IC5. For a call in the most appropriate condition, DSP checks voice level of the calling party, acousticity in a room, voice level of the other party and state of the line of contact, and cancels echo in transmitting and receiving at the start of calling. It operates in a half double-call state in a few seconds for the check. Transmitting signal is inputted from SP phone mic. and amplified by IC4 built-in Amp \rightarrow A/D conversion \rightarrow inputted to IC5 in PCM data \rightarrow Gain adjustment by DSP of IC5, then sent to PBX through echo canceller.

Receiving signal inputted from PBX is \rightarrow Gain adjustment by DSP through echo canceller of IC5 \rightarrow inputted to IC4 in PCM data \rightarrow D/A conversion \rightarrow IC4 built-in Amp output \rightarrow outputted from IC2(Amp) to speaker.

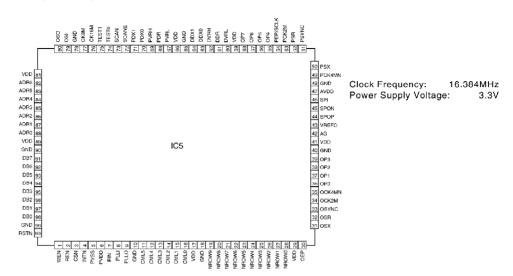
Power Amp IC2 is controlled as follows;

IC3-pin 51 L → IC2-ON

IC3-pin 51 H → IC2-OFF

11. IC DATA

11.1. IC5 (ASIC)

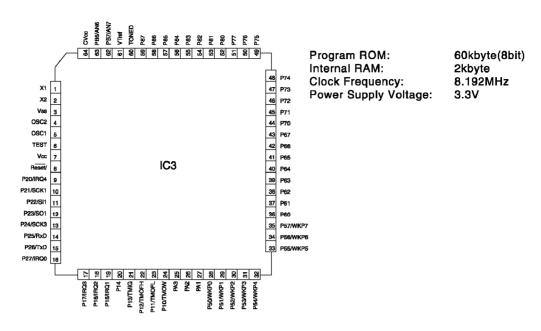


Pin	No.	I/O Setting	Pull-up Processing	Contents of Control	Remark
1	WEN	in	Built-in	Write signal	
2	REN	in	Built-in	Read signal	
3	CSN	in	Built-in	Chip select input	
4	INTN	out	-	Interrupt output	
5	PVSS	-	-	Ground for DSP PLL	
6	PVDD	-	-	Power supply for DSP PLL	
7	RIN	in	-	DSP PLL adjustment	
8	PLLI	in	-	DSP PLL adjustment	
9	PLLO	out	-	DSP PLL adjustment	
10	GND	-	-	Digital ground	
11	CML5	out	-	LED column drive 5	
12	CML4	out	-	LED column drive 4	
13	CML3	out	-	LED column drive 3	
14	CML2	out	-	LED column drive 2	
15	CML1	out	-	LED column drive 1	
16	CML0	out	-	LED column drive 0	
17	VDD	-	-	Digital power supply	
18	GND	-	-	Digital ground	
19	NROW9	out	-	LED row drive 9	
20	NROW8	out	-	LED row drive 8	
21	NROW7	out	-	LED row drive 7	
22	NROW6	out	-	LED row drive 6	
23	NROW5	out	-	LED row drive 5	
24	NROW4	out	-	LED row drive 4	
25	NROW3	out	-	LED row drive 3	
26	NROW2	out	-	LED row drive 2	
27	NROW1	out	-	LED row drive 1	

Pin	No.	I/O Setting	Pull-up Processing	Contents of Control	Remark
28	NROW0	out	-	LED row drive 0	
29	VDD	-	-	Digital power supply	
30	OEP	tri	-	Channel pulse	
31	osx	tri	-	2.048MHz serial data output	
32	OSR	in	Built-in	2.048MHz serial data input	
33	OSYNC	bi	-	8Khz frame synchronized signal	
34	OCK2M	bi	-	2.048MHz serial clock (Schmitt)	
35	OCK4MN	tri	-	4.096MHz serial clock	
36	OP0	out	-	Optional reset output 1	
37	OP1	out	-	Optional reset output 2	
38	OP2	out	-	Codec serial data output	
39	OP3	out	-	Codec serial clock output	
40	GND	-	-	Digital ground	
41	VDD	-	-	Digital power supply	
42	AG	-	-	Analog ground (For D/A)	
43	VREFO	out	-	Analog reference voltage	
44	SPOP	out	-	+ Side of output for handset SP Amp	
45	SPON	out	-	- Side of output for handset SP Amp	
46	SPI	in	-	Input for handset SP	
47	AVDD	-	-	Digital power supply	
48	GND	-	-	Digital ground	
49	PCK4MN	tri	-	4.096MHz serial clock	
50	PSX	tri	-	2.048MHz serial data output	
51	PSYNC	tri	-	8Khz frame synchronized signal	
52	PSR	in	Built-in	2.048MHz serial data Input	
53	PCK2M	tri	-	2.048MHz serial clock	
54	PEP/SCLK	tri	-	Channel pulse/Serial clock	
55	OP4	out	-	CO7 green LED control port	H:LEDON
56	OP5	out	-	CO7 red LED control port	H:LEDON
57	OP6	out	-	DXDP constant current switching port	H:40mA, L:20mA
58	OP7	out	-	DXDP constant current control port	H:Constant current circuit ON
59	VDD	-	-	Digital power supply	
60	DVRL	in	-	Reference voltage for comparator (For DXDP)	
61	DDR	in	-	Receive data input (For DXDP)	
62	DVRH	in	-	Reference voltage for comparator (For DXDP)	

Pin	No.	I/O Setting	Pull-up Processing	Contents of Control	Remark
63	DDX0	out	-	Send data output (For DXDP)	
64	DDX1	tri	-	Send data output (For DXDP)	
65	GND	-	-	Digital ground	
66	VDD	-	-	Digital power supply	
67	PVRL	in	-	Reference voltage for	
				comparator	
68	PDR	in	-	Receive data input	
69	PVRH	in	-	Reference voltage for	
				comparator	
70	PDX0	out	-	Send data output	
71	PDX1	out	-	Send data output	
72	SCANE	in	Built-	Scan test enable pin	
			in(down)		
73	SCAN	in	Built-	Scan test enable pin	
			in(down)		
74	TEST0	in	-	Test mode pin 0	
75	TEST1	in	-	Test mode pin 1	
76	CK16M	tri	-	16Mhz clock (For Test)	
77	CK8M	tri	-	8MHz clock (For CPU)	
78	GND	-	-	Digital ground	
79	OSI	in	-	Crystal oscillator input	
80	OSO	out	-	Crystal oscillator output	
81	VDD	-	Duilt in	Digital power supply	
82	ADR6	in	Built-in	Address 6	
83	ADR5	in	Built-in	Address 5	
84	ADR4	in	Built-in	Address 4	
85	ADR3	in	Built-in	Address 3	
86	ADR2	in	Built-in	Address 2	
87	ADR1	in	Built-in	Address 1	
88	ADR0	in	Built-in	Address 0	
89	VDD	-	-	Digital power supply	
90	GND	- h:	- Desité in	Digital ground	
91	DB7	bi	Built-in	Data 7	
92	DB6	bi	Built-in Built-in	Data 6	
93	DB5	bi		Data 5	
94	DB4	bi	Built-in Built-in	Data 4	
95	DB3 DB2	bi bi		Data 3	
96 97			Built-in Built-in	Data 2 Data 1	
98	DB1 DB0	bi bi	Built-in Built-in	Data 1	
98	GND	DI DI	Duilt-III	Digital ground	
		in in	-		
100	RSTN	in	-	Reset input(Schmitt)	

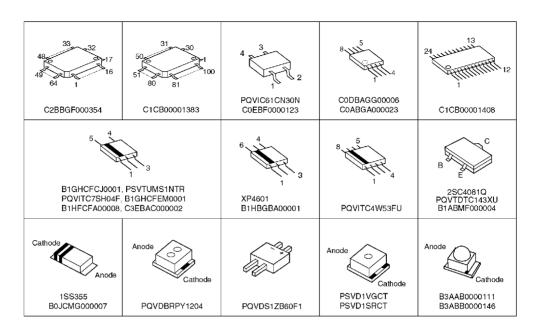
11.2. IC3 (CPU)



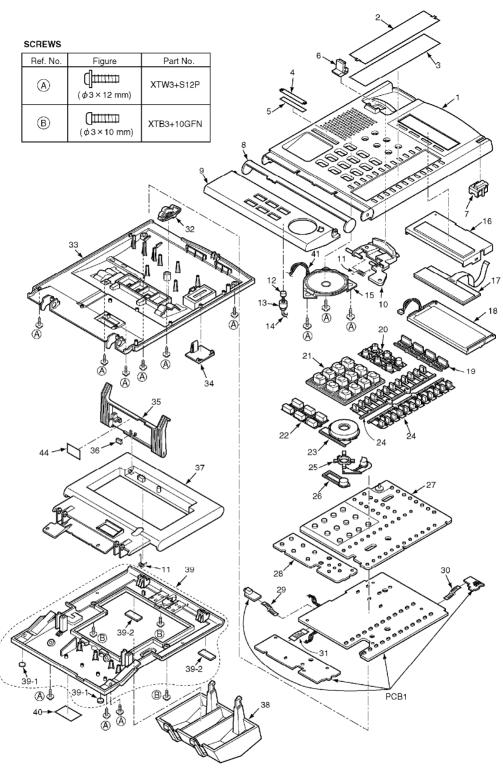
Pin	No.	I/O Setting	Pull-up Processing	Contents of Control	Remark
1	X1	I	-	not in use	Connecting to Vcc
2	X2	0	-	not in use	Open
3	Vss		-	GND	
4	OSC2	0	-		Open
5	OSC1	I	-	8MHz clock	from 8.192MHz ASIC
6	TEST	I	-	not in use	Connecting to Vss
7	Vcc		-	Power terminal	+{3.3V
8	Reset/	I	-	Reset input	Low active
9	P20/IRQ4	I	Built-in	OP-Rx-Rdy	
10	P21/SCK1	0	-	LCD_SCK	
11	P22/SI1	I	Built-in	OP_Busy/	Low active
12	P23/SO1	0	-	LCD_DATA	
13	P24/SCK3	0	Built-in	OP_SCK	
14	P25/RxD	I	Built-in	OP_RXD	
15	P26/TxD	0	-	OP_TXD	
16	P27/IRQ0	I	(out)	OP-Tx-En	
17	P17/IRQ3	I	Built-in	Hook detection/	L:OFF-HOOK
18	P16/IRQ2	I	Built-in	GA_RxINT/	Low active
19	P15/IRQ1	VO	Built-in	KEYOUT0	
20	P14	VO	Built-in	KEYOUT1	
21	P13/TMIG	VO	Built-in	KEYOUT2	
22	P12/TMOFH	VO	Built-in	KEYOUT3	
23	P11/TMOFL	I/O	Built-in	KEYOUT4	
24	P10/TMOW	0	-	Chrystal drive pulse of LCD	Timer output125KHz
25	PA3	I/O	(out)	KEYOUT5	
26	PA2	0	-	REN/	Low active
27	PA1	0	-	WEN/	Low active
28	P50/WKP0	I	Built-in	KEY-IN0	

Pin	No.	I/O Setting	Pull-up	Contents of Control	Remark
29	P51/WKP1		Processing Built-in	KEY-IN1	
30	P51/WKP1	1	Built-in	KEY-IN2	
31	P52/WKP2		Built-in	KEY-IN3	
32	P54/WKP4	I I	Built-in	KEY-IN4	
		•			
33	P55/WKP5	I	Built-in	KEY-IN5	
34	P56/WKP6	I	Built-in	KEY-IN6	
35	P57/WKP7	0	Built-in	not in use	
36	P60	1/0	Built-in	DB0	
37	P61	VO	Built-in	DB1	
38	P62	VO	Built-in	DB2	
39	P63	VO	Built-in	DB3	
40	P64	VO	Built-in	DB4	
41	P65	VO	Built-in	DB5	
42	P66	VO	Built-in	DB6	
43	P67	VO	Built-in	DB7	
44	P70	0	-	AD0/KEY-OUT6	
45	P71	0	-	AD1/KEY-OUT7	
46	P72	0	-	AD2	
47	P73	0	-	AD3	
48	P74	0	-	AD4	
49	P75	0	-	AD5	
50	P76	0	-	AD6	
51	P77	0	-	SP AMP OFF	H:OFF, L:ON
52	P80	0	-	MIC switch	L: Hand set, H: Head set
53	P81	0	-	EEPROM CLK	Clock output
54	P82	I/O	(out)	EEPROM DATA	Serial data input/
55	P83	0	-	CODEC CS	
56	P84	0	-	Control of back light	H: Back light ON
57	P85	0	out(down])	LCD_Reset/	Low active
58	P86	0	-	LCD_CS1/	
59	P87	0	-	LCD_DT_CMD/(AO)	For data/command selecting
60	TONED	0	-	not in use	not in use
61	VTref	I	-	not in use	not in use
62	PB7/AN7	ı	(out)	Model distinction 2(A/D)	H:30/33, L:36
63	PB6/AN6	I	(out)	Option detection	
64	CVcc	I	-	Internal electrical power	Connecting 0.1 μ F to
				source	GND

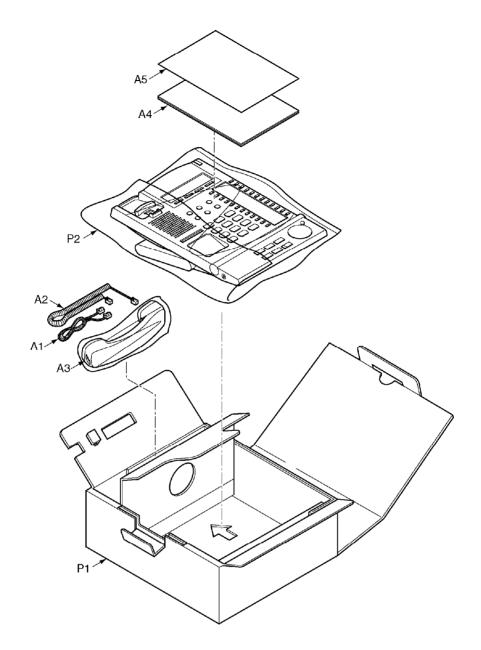
12. TERMINAL GUIDE OF ICs, TRANSISTORS AND DIODES



13. CABINET AND ELECTRICAL PARTS LOCATION



14. ACCESSORIES AND PACKING MATERIALS



15. REPLACEMENT PARTS LIST

1. RTL (Retention Time Limited)

Note:

The marking (RTL) indicates that the Retention Time is limited for this item.

After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing parts and

product retention.

After the end of this period, the assembly will no longer be available.

- 2. Important safety notice
 - Components identified by \triangle mark have special characteristics important for safety. When replacing any of these components, use only manufacture's specified parts.
- 3. The S mark means the part is one of some identical parts. For that reason, it may be different from the installed part.
- 4. ISO code (Example: ABS-HB) of the remarks column shows quality of the material and a flame resisting grade about plastics.
- **5. RESISTORS & CAPACITORS**

Unless otherwise specified;

All resistors are in ohms (Ω) K=1000 Ω , M=1000k Ω All capacitors are in MICRO FARADS (μ F) P= μ μ F *Type & Wattage of Resistor

Туре									
ERC:Solid ERX:Meta		etal Film		PQ4R:Carbon					
ERD:Carbon		ERG:M	etal	I Oxide		ERS:F	usible	Res	sistar
PQRD:Carbor	ո	ER0:Me	etal	Film		ERF:C	emer	nt Re	sistor
Wattage									
10,16:1/8W	14,25:	1/4W		12:1/2W		1:1W	2:2	2W	3:3W
*Type & Voltage of Capacitor									
Туре									
ECFD:Semi-C	onductor			ECCD,ECKD,ECBT,PQCBC : Ceramic					
ECQS:Styrol				ECQE,ECQV,ECQG : Polyester					
PQCUV:Chip				ECEA,ECSZ : Electrolytic					
ECQMS:Mica				ECQP : Polypropylene					
Voltage									
ECQ Type	ECQG		EC	SZ Type		C	others	s	
	ECQV T	/ Type							
1H: 50V	05: 50V		0F	:3.15V	OJ	:6.3V	1	17	:35V
2A:100V	1:100V	'	1A:10V		1A	:10V		50,1	H:50V
2E:250V	2:200V	·	17	′:35V	1C	:16V		1J	:63V
2H:500V			0J	:6.3V	1E,	25:25V		2A	:100V

15.1. CABINET AND ELECTRICAL PARTS

Ref. No.	Part No.	Part Name & Description	Remarks
1	PSKM1083Y1	CABINET BODY	ABS-HB
		(for KX-T7633)	
1	PSKM1083Y2	CABINET BODY	ABS-HB
		(for KX-T7633-B)	
2	PSHR1251Z	TRANSPARENT PLATE (LARGE)	
<u>3</u>	PSGD1061Z	TEL. CARD (LARGE)	
<u>4</u>	PQHR576Z	TRANSPARENT PLATE (SMALL)	
<u>5</u>	PQHP532X	TEL. CARD (SMALL)	
<u>6</u>	PQKE10070Z3	LID, HOOK KNOB	ABS-HB
		(for KX-T7633)	
6	PQKE10070Z1	LID, HOOK KNOB	ABS-HB
		(for KX-T7633-B)	
7	PSGP1075Z	COVER, LED LENS	ABS-HB
8	PSKK1038Z1	LID, SHAFT COVER	ABS-HB
9	PSKM1084Z1	CABINET BODY, APRON	ABS-HB
		(for KX-T7633)	
9	PSKM1084Z2	CABINET BODY, APRON	ABS-HB
		(for KX-T7633-B)	
10	PSBH1005Z1	PUSH BUTTON, HOOK	ABS-HB
_		(for KX-T7633)	
10	PSBH1005Z2	PUSH BUTTON, HOOK	ABS-HB
		(for KX-T7633-B)	
11	PSUS1018Z	TORSION SPRING	
12	PQJM122Z	BUILTIN-MICROPHONE	
13	PSHG1216Z	SPACER, MIC RUBBER	
	PSJS02P14Z	,	
14		CONNECTOR, 2 PIN	
<u>15</u>	PQAS57P03Z	SPEAKER	DO 11D
<u>16</u>	PSGP1077Z	COVER, LCD HOLDER	РС-НВ
<u>17</u>	L5DAALC00001	LIQUID CRYSTAL DISPLAY	
<u>18</u>	A4LZGD000001	FLUORESCENT LAMP, BACK LIGHT UNIT	
<u>19</u>	PSBX1092Z1	PUSH BUTTON, SOFT	ABS-HB
		(for KX-T7633)	
19	PSBX1092Z2	PUSH BUTTON, SOFT	ABS-HB
		(for KX-T7633-B)	
<u>20</u>	PSBX1091Z1	PUSH BUTTON, FUNCTION	ABS-HB
		(for KX-T7633)	
20	PSBX1091Z2	PUSH BUTTON, FUNCTION	ABS-HB
		(for KX-T7633-B)	
<u>21</u>	PSBX1089Z1	PUSH BUTTON, DIAL	ABS-HB
<u>22</u>	PSYX1005Z1	PUSH BUTTON, 6 KEY	ABS-HB
		(for KX-T7633)	
22	PSYX1005Z2	PUSH BUTTON, 6 KEY	ABS-HB
		(for KX-T7633-B)	
<u>23</u>	PSBC1027Z3	PUSH BUTTON, NAVIGATOR KEY	ABS-HB
<u>24</u>	PSBX1090Z1	PUSH BUTTON, CO LINE	ABS-HB
		(for KX-T7633)	
24	PSBX1090Z2	PUSH BUTTON, CO LINE	ABS-HB
		(for KX-T7633-B)	
<u>25</u>	PSBC1029Z1	PUSH BUTTON, CANCEL	ABS-HB
		(for KX-T7633)	
25	PSBC1029Z2	PUSH BUTTON, CANCEL	ABS-HB
		(for KX-T7633-B)	
<u>26</u>	PSBC1026Z3	PUSH BUTTON, ENTER	ABS-HB
<u>27</u>	PSSX1029Z	KEYBOARD SWITCH, MAIN PART	
<u>28</u>	PSSX1019Z	KEYBOARD SWITCH, APRON PART	

Ref. No.	Part No.	Part Name & Description	Remarks
<u>29</u>	PSJE1031Z	LEAD WIRE	
<u>30</u>	PSJE1030Z	LEAD WIRE	
<u>31</u>	PSJE1032Z	LEAD WIRE	
<u>32</u>	PSHR1236Z	GUIDE	РОМ-НВ
<u>33</u>	PSKF1054Z1	LOWER CABINET COVER	ABS-HB
		(for KX-T7633)	
33	PSKF1054Z2	LOWER CABINET COVER	ABS-HB
		(for KX-T7633-B)	
34	PSKK1039Z1	LID, CONNECTOR COVER	ABS-HB
		(for KX-T7633)	
34	PSKK1039Z2	LID, CONNECTOR COVER	ABS-HB
		(for KX-T7633-B)	
<u>35</u>	PSBE1003Z1	ADJUST STAND	ABS-HB
		(for KX-T7633)	
35	PSBE1003Z2	ADJUST STAND	ABS-HB
		(for KX-T7633-B)	
<u>36</u>	PSHG1233Z	SPACER, RUBBER	
<u>37</u>	PSKM1085Z1	CABINET BODY, BASE	ABS-HB
		(for KX-T7633)	
37	PSKM1085Z2	CABINET BODY, BASE	ABS-HB
		(for KX-T7633-B)	
<u>38</u>	PSKL1014Z1	STAND	PS-HB
		(for KX-T7633)	
38	PSKL1014Z2	STAND	PS-HB
		(for KX-T7633-B)	
<u>39</u>	PSYF1036Z1	CABINET COVER, BASE ASS'Y	PS-HB
		(for KX-T7633)	
39	PSYF1036Z2	CABINET COVER, BASE ASS'Y	PS-HB
		(for KX-T7633-B)	
<u>39-1</u>	PSHA1010Z	RUBBER PARTS, FOOT	
<u>39-2</u>	PSHA1011Z	RUBBER PARTS, CUSHION	
<u>40</u>	PSGT2245Z	NAME PLATE	
		(for KX-T7633)	
40	PSGT2256Z	NAME PLATE	
		(for KX-T7633-B)	
<u>41</u>	PSJS02P15Z	CONNECTOR, 2 PIN	
42	Not Used		
43	Not Used		
44	PSQT1907Z	FCC CAUTION LABEL	
	1		

15.2. ACCESSORIES AND PACKING MATERIALS

Ref. No.	Part No.	Part Name & Description	Remarks
<u>A1</u>	PSJA1068Z	CORD, TELEPHONE	S
<u>A2</u>	PSJA1084Z	CORD, HANDSET	
		(for KX-T7633)	
A2	PSJA1084X	CORD, HANDSET	
		(for KX-T7633-B)	
<u>A3</u>	PQJX2PS409Z	HANDSET	
		(for KX-T7633)	
A3	PQJX2PKA409Z	HANDSET	
		(for KX-T7633-B)	
<u>A4</u>	PSQX2607Z	INSTRUCTION BOOK	
		(QUICK REFERENCE GUIDE)	
<u>A5</u>	PSQW1843Z	LEAFLET	
<u>P1</u>	PSZKT7633M	GIFT BOX ASS'Y	
		(for KX-T7633)	
P1	PSZKT7633MB	GIFT BOX ASS'Y	
		(for KX-T7633-B)	
<u>P2</u>	XZB34X48A05	PROTECTION COVER	

15.3. MAIN AND SUB BOARDS PARTS

Ref. No.	Part No.	Part Name & Description	Remarks
PCB1	PSWPT7636M	P. C. BOARD ASS'Y (RTL)	
		(ICs)	
IC1	C0EBF0000123	IC	
IC2	C0ABGA000023	IC	
IC3	C2BBGF000354	IC	
IC4	C1CB00001408	IC	
IC5	C1CB00001383	IC	
IC6	C0DBAGG00006	IC	
IC7	PQVITC4W53FU	IC	
IC8	PQVITC7SH04F	IC	S
IC9	C3EBAC000002	IC	
IC10	PQVIC61CN30N	IC	S
		(TRANSISTORS)	
Q1	PQVTDTC143XU	TRANSISTOR(SI)	S
Q2	PSVTUMS1NTR	TRANSISTOR(SI)	S
Q3	B1GHCFCJ0001	TRANSISTOR(SI)	
Q4	B1GHCFEM0001	TRANSISTOR(SI)	
Q5	B1GHCFEM0001	TRANSISTOR(SI)	
Q6	B1GHCFEM0001	TRANSISTOR(SI)	
Q7	B1GHCFEM0001	TRANSISTOR(SI)	
Q8	B1HFCFA00008	TRANSISTOR(SI)	
Q9	XP4601	TRANSISTOR(SI)	S
Q10	2SC4081Q	TRANSISTOR(SI)	s
Q11	B1HBGBA00001	TRANSISTOR(SI)	
Q12	B1HBGBA00001	TRANSISTOR(SI)	
Q13	B1HBGBA00001	TRANSISTOR(SI)	
Q14	PSVTUMX1NTN	TRANSISTOR(SI)	
Q15	B1ABMF000004	TRANSISTOR(SI)	
Q16	2SC4081Q	TRANSISTOR(SI)	s

Ref. No.	Part No.	Part Name & Description	Remarks
		(DIODES)	
D4	400055	(DIODES)	
D1	1SS355	DIODE(SI)	S
D2	1SS355	DIODE(SI)	S
D3	1SS355	DIODE(SI)	S
D4	B0JCMG000007	DIODE(SI)	
D5	PQVDS1ZB60F1	DIODE(SI)	S
D12	1SS355	DIODE(SI)	S
D101	PQVDBRPY1204	LED	S
D102	PQVDBRPY1204	LED	S
D103	PQVDBRPY1204	LED	S
D104	PQVDBRPY1204	LED	S
D105	PQVDBRPY1204	LED	s
D106	PQVDBRPY1204	LED	S
D107	PQVDBRPY1204	LED	S
D108	PQVDBRPY1204	LED	s
D109	PQVDBRPY1204	LED	s
D110	PQVDBRPY1204	LED	s
D111	PQVDBRPY1204	LED	s
D112	PQVDBRPY1204	LED	s
D113	PQVDBRPY1204	LED	s
D114	PQVDBRPY1204	LED	s
	PQVDBRPY1204		
D115		LED	S
D116	PQVDBRPY1204	LED	S
D117	PQVDBRPY1204	LED	S
D118	PQVDBRPY1204	LED	S
D119	PQVDBRPY1204	LED	S
D120	PQVDBRPY1204	LED	S
D121	PQVDBRPY1204	LED	S
D122	PQVDBRPY1204	LED	S
D123	PQVDBRPY1204	LED	S
D124	PQVDBRPY1204	LED	S
D125	PSVD1SRCT	LED	S
D126	PSVD1SRCT	LED	S
D127	PSVD1SRCT	LED	S
D128	PSVD1SRCT	LED	s
D129	PSVD1VGCT	LED	S
D130	B3AAB0000111	DIODE(SI)	
D131	B3ABB0000146	DIODE(SI)	
D132	B3ABB0000146	DIODE(SI)	
D133	PSVD1SRCT	LED	s
		(CONNECTORS)	
CN1	K1MN22A00007	CONNECTOR, 22 PIN	
CN2	PSJP02A05Z	CONNECTOR, 2 PIN	s
CN3	PSJS18A74Z	CONNECTOR, 18 PIN	+
CN4	K1MN04B00052	CONNECTOR, 4 PIN	
	K1MN04B00052		
CN5		CONNECTOR, 4 PIN	
CN6	PSJP02A05Z	CONNECTOR, 2 PIN	S
CN7	PSJP02A05Z	CONNECTOR, 2 PIN	S
CN8	K1MN09B00059	CONNECTOR, 9 PIN	
CN9	K1MN09B00059	CONNECTOR, 9 PIN	
CN10	PSJS18A74Z	CONNECTOR, 18 PIN	
CN11	K1MN04B00052	CONNECTOR, 4 PIN	

Ref. No	. Part No.	Part Name & Description	Remarks
CN12	K1MN04B00052	CONNECTOR, 4 PIN	
CN13	PSJP04A05Z	CONNECTOR, 4 PIN	S
		(JACKS)	
JK1	PSJJ1T012Z	JACK, HANDSET	S
JK2	PSJJ1T019Z	JACK, HYBRID IP-PBX	S
JK3	PSJJ1T011Z	JACK, TELEPHONE LINE	S
JK4	PQJJ1C002Z	JACK, HEADSET	S
		(CERAMIC FILTERS)	
L2	PFVF1B601ST	CERAMIC FILTER	S
L3	PFVF1B601ST	CERAMIC FILTER	S
L6	PFVF1B601ST	CERAMIC FILTER	S
L7	PFVF1B601ST	CERAMIC FILTER	S
L8	PFVF1B601ST	CERAMIC FILTER	S
L9	PFVF1B601ST	CERAMIC FILTER	S
		(COILS)	
L5	G1A331D00005	COIL	
		(COMPONENT PARTS)	
RA1	D1H81224A010	RESISTOR ARRAY	
		(TRANSFORMER)	
T1	ETJS13ZA14AB	TRANSFORMER	
		(CRYSTAL OSCILLATOR)	
X1	PSVCC0052C	CRYSTAL OSCILLATOR	s
		(RESISTORS)	
J4	ERJ3GEY0R00	0	
L4	ERJ6GEYJ3R3	3.3	
R1	ERJ3GEYJ105	1M	
R2	ERJ3GEYJ105	1M	
R3	ERJ3GEYJ105	1M	
R4	ERJ3GEYJ105	1M	
R5	ERJ3GEYJ3R3	3.3	
R6	ERJ3GEY0R00	0	
R7	ERJ3GEYJ471	470	
R8	ERJ3GEYJ473	47k	
R9	ERJ3GEYJ103	10k	
R10	ERJ3GEYJ102	1k	
R11	ERJ3GEYJ102	1k	
R12	ERJ6GEYJ3R3	3.3	
R13	ERJ3GEYJ473	47k	
R15	ERJ3GEYJ121	120	
R17	ERJ3GEYJ182	1.8k	
R18	ERJ3GEYJ222	2.2k	
R19	ERJ3GEYJ102	1k	
R20	ERJ3GEYJ222	2.2k	
R21	ERJ3GEYJ473	47k	
R23	ERJ3GEYJ333	33k	
R24	ERJ3GEYJ563	56k	

Ref. No.	Part No.	Part Name & Description	Remarks
R25	ERJ3GEYJ473	47k	
R26	ERJ3GEYJ103	10k	
R27	ERJ3GEYJ183	18k	
R28	ERJ3GEYJ223	22k	
R29	ERJ3GEYJ333	33k	
R30	ERJ3GEYJ333	33k	
R31	ERJ3GEYJ224	220k	
R32	ERJ3GEYJ564	560k	
R33	ERJ3GEYJ333	33k	
R34	ERJ3GEYJ333	33k	
R35	ERJ3GEYJ102	1k	
R36	ERJ3GEYJ333	33k	
R37	ERJ3GEYJ221	220	
R38	ERJ3GEYJ473	47k	
R40	ERJ3GEYJ473	47k	
R41	ERJ3GEYJ473	47k	
R42	ERJ3GEYJ393	39k	
R43	ERJ3GEYJ562	5.6k	
R45	ERJ3GEYJ473	47k	
R46	ERJ3GEYJ221	220	
R47	ERJ3GEYJ103	10k	
R48	ERJ3GEYJ181	180	
R49	ERJ3GEYJ102	1k	
R50	ERJ3GEYJ102	1k	
R51	ERJ3GEYJ102	1k	
R52	ERJ3GEYJ471	470	
R53	ERJ3GEYJ471	470	
R54	ERJ3GEYJ471	470	
R55	ERJ3GEY0R00	0	
R56	ERJ3GEYJ122	1.2k	
R57	ERJ3GEYJ122	1.2k	
R58	ERJ3GEYJ105	1M	
R59	ERJ3GEYJ331	330	
R60	ERJ3GEYJ182	1.8k	
R61	ERJ3GEYJ182	1.8k	
R62	ERJ3GEYJ822	8.2k	
R63	ERJ3GEYJ562	5.6k	
R64	ERJ3GEYJ123	12k	
R65	ERJ3GEYJ562	5.6k	
R66	ERJ3GEYJ682	6.8k	
R67	ERJ3GEYJ103	10k	
R68	ERJ3GEYJ122	1.2k	
R69	ERJ3GEYJ472	4.7k	
R70	ERJ3GEYJ182	1.8k	
R71	ERJ3GEYJ121	120	
R72	ERJ3GEYJ121	120	
R73	ERJ3GEYJ180	18	
R74	ERJ3GEYJ121	120	
R75	ERJ3GEYJ180	18	
R76	ERJ3GEYJ121	120	
R77	ERJ3GEYJ180	18	
R78	ERJ3GEYJ121	120	
R79	ERJ3GEYJ180	18	
R80	ERJ3GEYJ220	22	

Ref. No.	Part No.	Part Name & Description	Remarks
R81	ERJ3GEYJ220	22	
R82	ERJ3GEYJ472	4.7k	
R83	ERJ3GEYJ101	100	
R84	ERJ3GEYJ101	100	
R85	ERJ3GEYJ122	1.2k	
R86	ERJ3GEYJ122	1.2k	
R87	ERJ3GEYJ271	270	
R88	ERJ3GEYJ822	8.2k	
	ERJ3GEYJ123	12k	
R89			
R90	ERJ3GEYJ272	2.7k	
R91	ERJ3GEYJ122	1.2k	
R92	ERJ3GEYJ561	560	
R93	ERJ3GEYJ331	330	
R94	ERJ3GEYJ180	18	
R95	ERJ3GEYJ561	560	
R96	ERJ3GEYJ331	330	
R97	ERJ3GEYJ270	27	
R98	ERJ3GEYJ562	5.6k	
R99	ERJ3GEYJ180	18	
R100	ERJ3GEYJ330	33	
R101	ERJ3GEYJ100	10	
R102	ERJ3GEYJ223	22k	
R103	ERJ3GEYJ681	680	
R104	ERJ3GEYJ270	27	
R105	ERJ3GEYJ270	27	
R106	ERJ3GEYJ270	27	
R107	ERJ3GEY0R00	0	
R108	ERJ3GEYJ121	120	
R109	ERJ3GEYJ473	47k	
R110	ERJ3GEYJ473	47k	
R116	ERJ3GEYJ153	15k	
		1k	
R117	ERJ3GEYJ102		
R118	ERJ3GEYJ105	1M	
R119	ERJ3GEYJ184	180k	
R120	ERJ3GEYJ103	10k	
R121	ERJ3GEYJ102	1k	
R124	ERJ3GEYJ105	1M	
R125	ERJ3GEYJ274	270k	
R126	ERJ3GEYJ682	6.8k	
R127	ERJ3GEYJ100	10	
R128	ERJ3GEYJ151	150	
R129	ERJ3GEYJ473	47k	
R130	ERJ3GEYJ221	220	
R131	ERJ3GEYJ473	47k	
R132	ERJ3GEYJ473	47k	
R133	ERJ3GEYJ1R0	1	
		(CAPACITORS)	
C1	PQCUV1C225ZF	2.2	
C2	PQCUV1C225ZF	2.2	
C3	PQCUV1C225ZF	2.2	
C4	PQCUV1C225ZF	2.2	
C5	PQCUV1H105JC	1	s
C6	PQCUV1H105JC	1	s
	1 400 11110000	I •	

Ref. No.	Part No.	Part Name & Description	Remarks
C7	PQCUV1H105JC	1	s
C8	PQCUV1H105JC	1	s
C9	PQCUV1C105ZF	1	s
C10	ECUV1C104ZFV	0.1	
C11	PQCUV1A475ZF	4.7	
C12	ECUV1C104ZFV	0.1	
C13	ECUV1C104ZFV	0.1	
C14	ECUV1C104ZFV	0.1	
C15	ECUV1H103KBV	0.01	s
C17	ECUV1H103KBV	0.01	s
C18	ECUV1C104ZFV	0.1	+
C19	ECUV1H103KBV	0.01	
C20	ECUV1H102KBV	0.001	s
C21	ECUV1H102KBV	0.001	s
C22	ECUV1C104ZFV	0.1	
C23	ECUV1C104ZFV	0.1	
	ECUV1C104ZFV		
C24		0.1	
C25	ECUV1H103KBV	0.01	S
C26	ECUV1H103KBV	0.01	S
C27	F2G0J1010014	100	
C28	F3F0G226A029	22	
C29	ECUV1A106ZF	10	
C30	ECUV1C475ZF	4.7	
C31	ECUV1A106ZF	10	
C32	ECUV1H122KBV	0.0012	
C33	ECUV1C104ZFV	0.1	
C35	ECUV1H100DCV	10P	
C36	ECUV1C104KBV	0.1	
C37	ECUV1C104KBV	0.1	
C38	ECUV1H153KBV	0.015	
C39	ECUV1H152KBV	0.0015	
C40	ECUV1H820JCV	82P	
C41	ECUV1H680JCV	68P	
C42	ECUV1H332KBV	0.0033	
C43	ECUV1C104KBV	0.1	
C44	PQCUV1C224ZF	0.22	S
C46	ECUV1A106ZF	10	
C47	ECUV1C104ZFV	0.1	
C48	ECUV1C104ZFV	0.1	
C49	ECUV1A106ZF	10	
C50	ECUV1A106ZF	10	
C51	ECUV1C104KBV	0.1	
C53	ECUV1C104KBV	0.1	
C54	ECUV1H103KBV	0.01	S
C56	ECUV1C104KBV	0.1	
C58	ECUV1C104ZFV	0.1	
C59	EEEFK0J101P	100	
C63	ECUV1H120JCV	12P	
C66	ECUV1C104ZFV	0.1	
C67	ECUV1H103KBV	0.01	s
C69	ECUV1C104ZFV	0.1	
C71	ECUV1C104ZFV	0.1	
C72	ECUV1C104ZFV	0.1	+
C73	ECUV1C104ZFV	0.1	+
0.0		···	

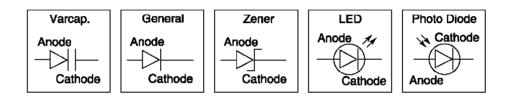
Ref. No.	Part No.	Part Name & Description	Remarks
C74		0.001	S
C75	ECUV1H102KBV	0.001	s
C76	ECUV1C104ZFV	0.1	
C77	ECUV1H120JCV	12P	
C78	ECUV1H120JCV	12P	
C79	ECUV1C104ZFV	0.1	
C80	ECUV1C104ZFV	0.1	
C81	ECUV1C104ZFV	0.1	
C83	ECUV1C104ZFV	0.1	
C84	ECUV1C104ZFV	0.1	
C85	ECUV1C104ZFV	0.1	
C86	PQCUV1H105JC	1	s
C87	PQCUV1H105JC	1	s
C88	EEEFK0J101P	100	-
C91		0.001	S
C92	ECUV1H102KBV	0.001	S
C93	EEEFK0J101P	100	
C94	ECUV1C104ZFV	0.1	
C95	ECUV1H101JCV	100P	
C96	ECUV1H101JCV	100P	
C97	ECUV1C104ZFV	0.1	
C98	PQCUV1C105ZF	1	S
C99	PQCUV1C105ZF	1	S
C100	PQCUV1H105JC	1	S
C101	ECUV1C104ZFV	0.1	
C102	PQCUV1C224ZF	0.22	S
C103	PQCUV1C105ZF	1	S
C104	PQCUV1H105JC	1	S
C105	ECUV1H103KBV	0.01	S
C106	ECUV1E104ZFV	0.1	S
C107	F2G1H3300004	33	
C108	ECUV1H102KBV	0.001	S
C109	ECUV1H103KBV	0.01	S
C110	ECUV1C104ZFV	0.1	
C111	EEE0GA331WP	330	
C112	ECUV1C104KBV	0.1	
C114	ECUV1E223KBV	0.022	
C115	ECUV1H103KBV	0.01	s
C116	ECUV1H103KBV	0.01	s
C117	ECUV1C104ZFV	0.1	
C118	ECUV1C104ZFV	0.1	
C119	ECUV1H103KBV	0.01	S
C120	ECUV1H100DCV	10P	
C121	ECUV1H100DCV	10P	
C122	ECUV1H100DCV	10P	
C123	ECUV1H100DCV	10P	
C124	ECUV1H100DCV	10P	
C125	ECUV1H100DCV	10P	
C126		10P	
C129	ECUV1C104ZFV	0.1	
C142		10P	
C144		0.001	s
C146		10P	
C140	ECUV1H102KBV	0.001	s
J 171		0.001	

Ref. No.	Part No.	Part Name & Description	Remarks
C148	ECUV1H331JCV	330P	
C149	ECUV1H331JCV	330P	

16. FOR THE SCHEMATIC DIAGRAM

Note:

- 1. DC voltage measurements are taken with an oscilloscope or a tester with a ground.
- 2. The schematic diagrams and circuit board may be modified at any time with the development of new technology.



Important safety notice

Components identified by <u>N</u> mark have special characteristics important for safety. When replacing any of there components, use only manufacturer's specified parts.

17. SCHEMATIC DIAGRAM

18. WAVEFORM

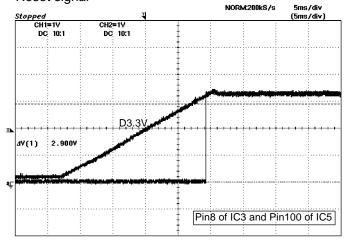
19. PRINTED CIRCUIT BOARD (MAIN / SUB BOARDS)

19.1. COMPONENT VIEW

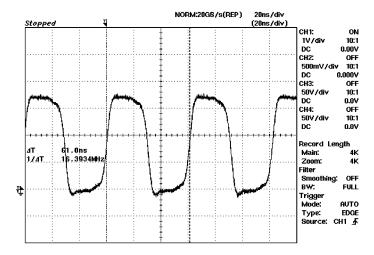
19.2. BOTTOM VIEW

NT1 / KXT7633 / KXT7633B

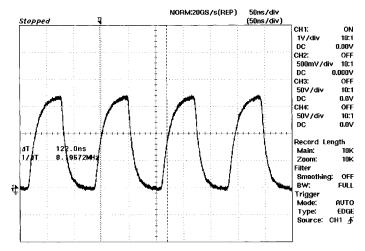
(1) Pin8 of IC3 and Pin100 of IC5 Reset signal



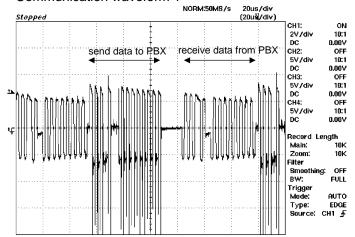
(2) Pin80 of IC5 16.384MHz



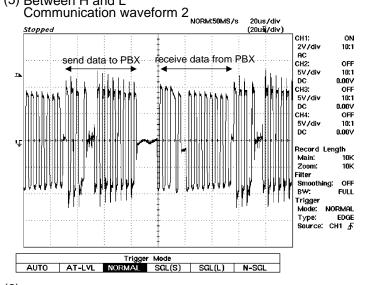
(3) Pin5 of IC3 8.196MHz

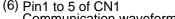


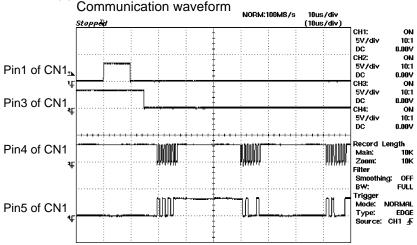
(4) Pin4 of T1 Communication waveform 1

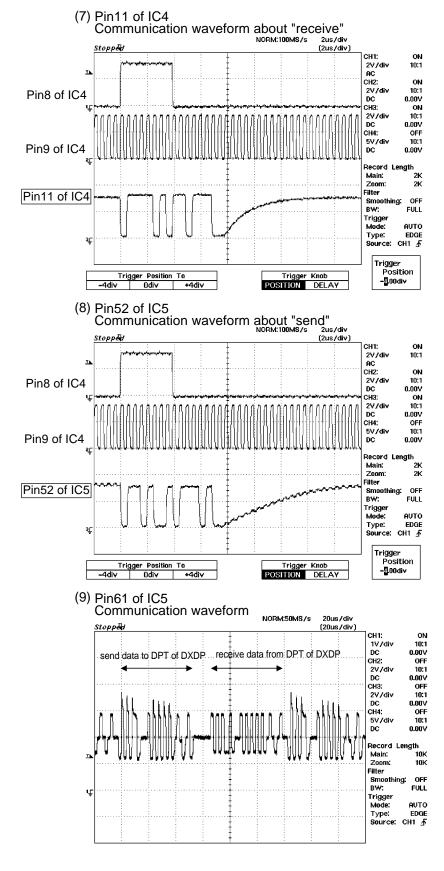


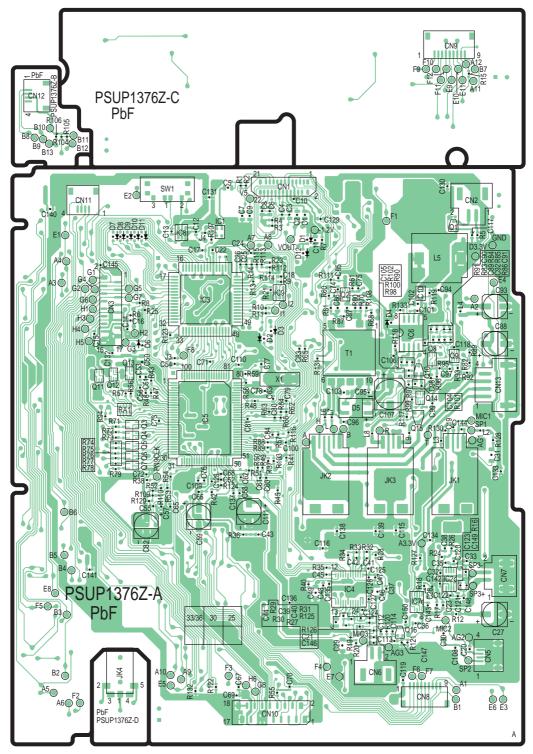
(5) Between H and L



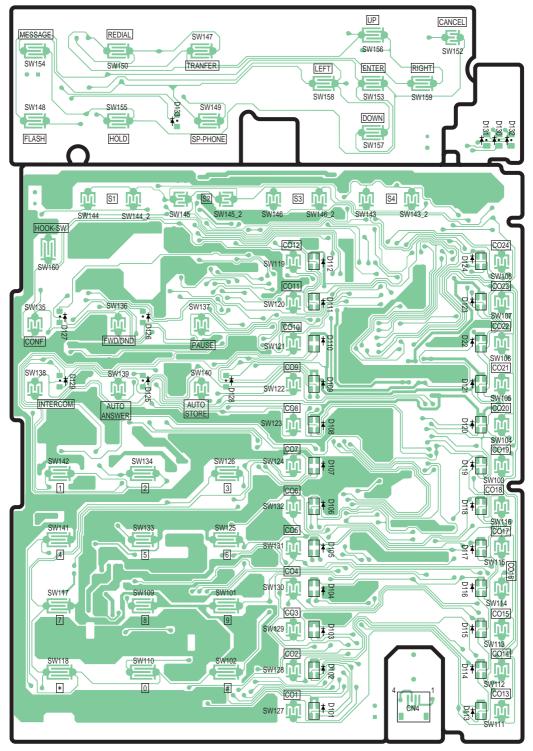




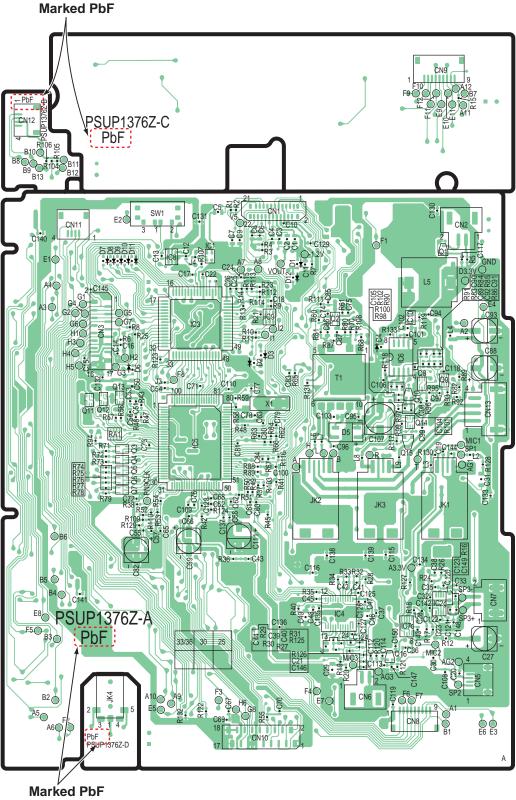


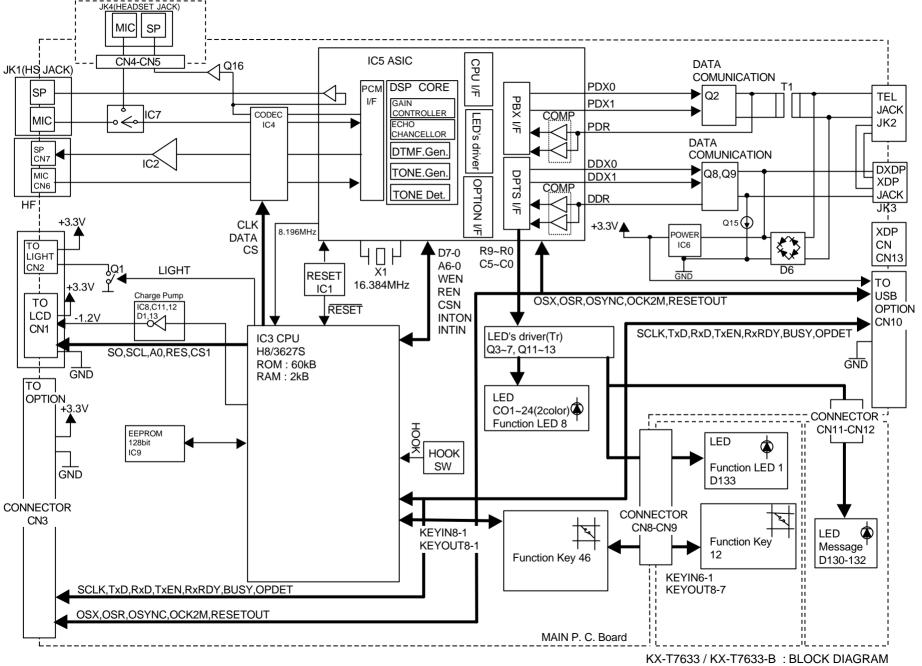


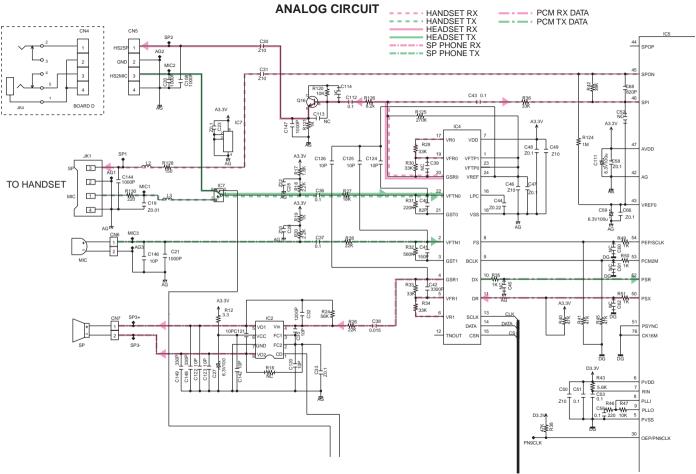
KX-T7633 / KX-T7633-B : MAIN and SUB BOARDS : COMPONENT VIEW

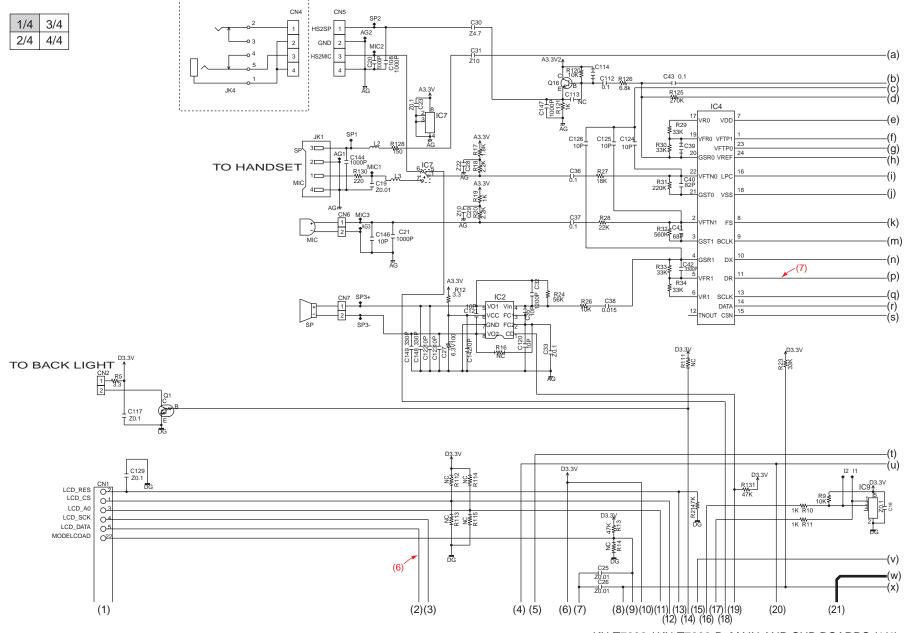


KX-T7633 / KX-T7633-B : MAIN and SUB BOARDS : BOTTOM VIEW

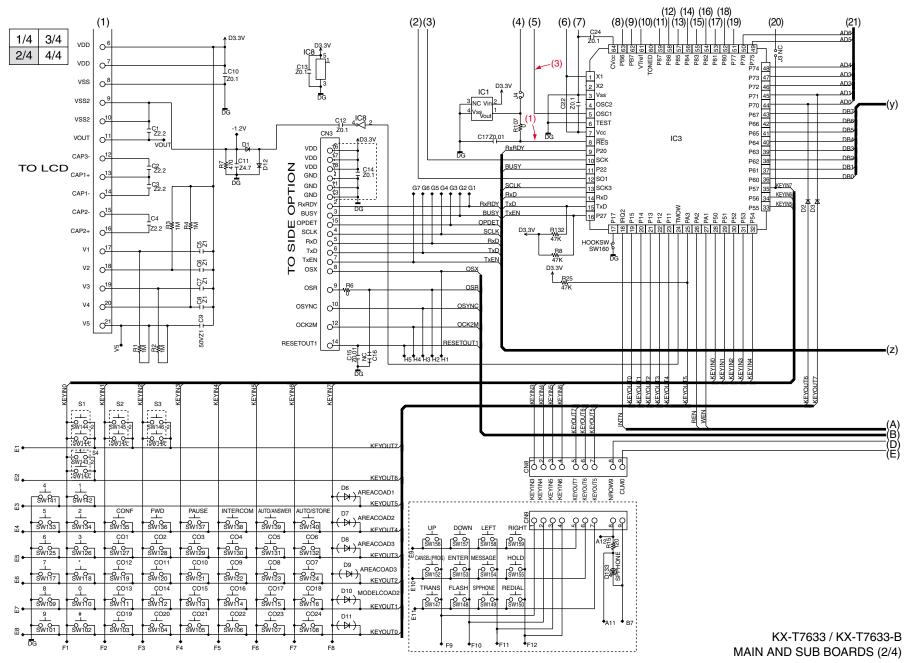


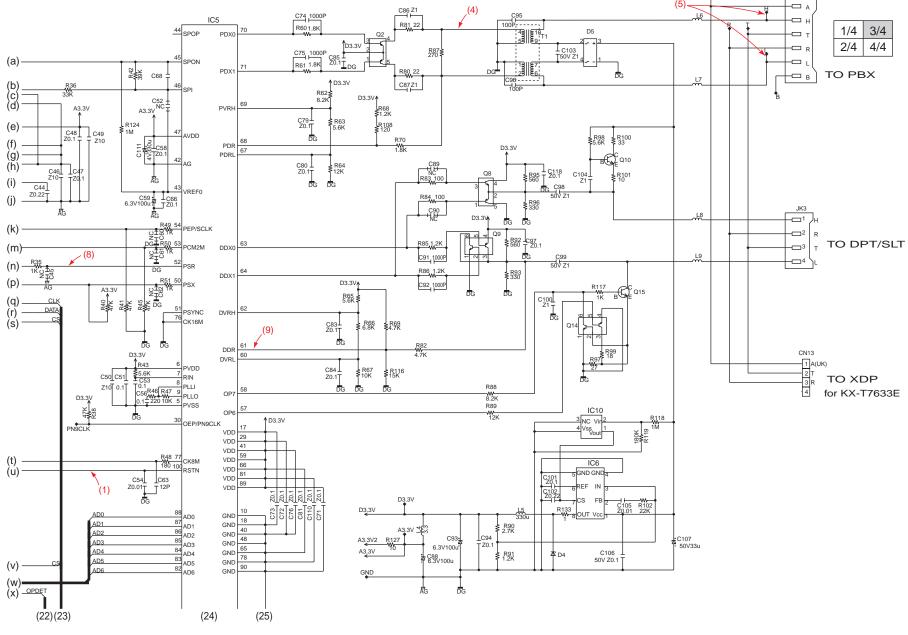






 $\mathsf{KX}\text{-}\mathsf{T7633}\,/\,\,\mathsf{KX}\text{-}\mathsf{T7633}\text{-}\mathsf{B}\,$ MAIN AND SUB BOARDS (1/4)





KX-T7633 / KX-T7633-B MAIN AND SUB BOARDS (3/4)

JK2

